PATENT COOPERATION TREATY

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From the INTERNATIONAL SEARCHING AUTHORITY								
To Daniel Altman KNOBBE, MARTENS, OLSON 2040 Main Street Fourteenth Floor Irvine, California 92614	N & BEAR, LLP	PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY						
		(PCT Rule 43 <i>bis</i> .1)						
		Date of mailing (day/month/year) U5 JUN 2006						
Applicant's or agent's file reference ANVIL.001BPC		FOR FURTHER ACTION See paragraph 2 below						
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)					
PCT/US05/36987	13 October 2005		13 October 2004					
International Patent Classification (IPC) or both national classification and IPC IPC(8) - A61F00206 (2006.01) USPC - 623/1.35, 1.15, 1.16								
Applicant ANVIL MEDICAL, INC.								
1. This opinion contains indications rela	ating to the following item	ns:						
Box No. I Basis of the op	inion							
Box No. II Priority		•						
Box No. III Non-establishn	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
Box No. IV Lack of unity o	of invention							
Box No. V Reasoned states citations and ex	Box No. V Reasoned statement under Rule 43bis. I(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain docume	ents cited							
Box No. VII Certain defects	in the international appli	cation						
Box No. VIII Certain observa	Box No. VIII Certain observations on the international application							
2. FURTHER ACTION								
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.								
If this opinion is, as provided above, or a written reply together, where appropriate the second sec	considered to be a written	opinion of the IPEA,	the applicant is invited to submit to the IPEA of 3 months from the date of mailing of Form					
PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.								
3. For further details, see notes to Form PCT/ISA/220.								
Name and mailing address of the ISA/US	Date of completion of th	uis opinion	Authorized officer:					
Mail Stop PCT, Attn: ISAUS Commissioner for Patents 10 March 2006 Lee W. Young								
P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201 Telephone No. 571-272-7774								

Form PCT/ISA/237 (cover sheet) (April 2005)

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/36987

Bo	t No. I	Basis of this opinion
1.	With re	gard to the language, this opinion has been established on the basis of: the international application in the language in which it was filed a translation of the international application into
2.	claimed	gard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the invention, this opinion has been established on the basis of: of material a sequence listing table(s) related to the sequence listing
	b. fоп	on paper in electronic form
	c. time	of filing/furnishing contained in the international application as filed filed together with the international application in electronic form furnished subsequently to this Authority for the purposes of search
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additio	nal comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/36987

Box No. IV Lack of unity of invention
1. In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit: paid additional fees
paid additional fees under protest and, where applicable, the protest fee
paid additional fees under protest but the applicable protest fee was not paid
not paid additional fees
2. This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
complied with
not complied with for the following reasons:
This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.
Group I, claims 1-11, 14-28, drawn to a prosthesis and deployment catheter system having at least one frond.
Group II, claims 12-13, drawn to a prosthesis and deployment system assembly, comprising: an elongate, flexible catheter body; a balloon on the body, the balloon having an inflated profile with a first section having a first diameter, a second section having a second diameter, and a balloon transition in between the first and second sections; and a prosthesis carried by the balloon; wherein the prosthesis has a wall having a first wall pattern adjacent the first section of the balloon, and a second wall pattern adjacent the balloon transition.
Group III, claim 29, drawn to a dual guidewire catheter for treating vascular bifurcation.
The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature of a prosthesis and deployment catheter system having at least one frond as in Group I is not present in Groups II and/or III; the special technical feature of a prosthesis and deployment system assembly, comprising: an elongate, flexible catheter body; a balloon on the body, the balloon having an inflated profile with a first section having a first diameter, a second section having a second diameter, and a balloon transition in between the first and second sections; and a prosthesis carried by the balloon; wherein the prosthesis has a wall having a first wall pattern adjacent the first section of the balloon, and a second wall pattern adjacent the balloon transition of Group II is not present in Group III; the special technical feature of the specifics of a dual guidewire catheter for treating vascular bifurcation as in Group III is not present in Groups I and/or II:
4. Consequently, this opinion has been established in respect of the following parts of the international application:
all parts
the parts relating to claims Nos. 1-11, 14-28

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/36987

Box No. V		Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Staten	ent					
No	velty (N)	Claims	1-11, 14-28	YES		
		Claims	None	NO		
Inv	entive step (IS)	Claims	1-11, 14-28	YES		
		Claims	None	NO		
Ind	ustrial applicability (IA)	Claims	1-11, 14-28	YES		
		Claima	None	NO.		

Citations and explanations:

Claims 1-11 and 14-28 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the limitations of claims 1 and 14 including a prosthesis for placement at an opening from a main body lumen to a branch body lumen, the prosthesis having both one or a plurality of fronds extending axially from an end of the support and configured to be positioned across the Os and into the main body lumen and at least one circumferential link connected to the frond(s), the circumferential link spaced axially epart from the support, wherein the circumferential link is carried by a second portion of a balloon which is inflatable to a second diameter that is larger than the first diameter. Close prior art is US 5868777 to Lam. Lam discloses that after the ostial stent is positioned within the diseased bifurcated vessel, balloon catheters are employed to secure the ostial stent in position. By expanding the balloon carrying the ostial stent, the tubular body is seated within the diseased portion of the bifurcated vessel extending away from the bifurcation and the flaring portion is configured to "cap" the ostium to the diseased portion of the vessel. In the alternative, a series of various sized and shaped balloon catheters can be employed to configure the ostial stent so that it seats within and "caps" the ostium to the diseased portion of the bifurcation or a bi- or tri-balloon system may be employed to properly implant the tubular body and flaring portion of the ostial stent (col 3 In 42-54). Furthermore, Lam discloses a flaring portion 25 is capable of expanding and may be comprised of individual pedals 26 or in the alternative and as shown in FIGS. 4 and 5, the flaring portion 25 may comprise malleable material 28 (col 5 in 65 - col 6 in 1). It is clear from Lam's figures 4 and 5 that the flaring portion 25 (which might be construed as a circumferential link is connected to and not spaced axially apart from the support.)

Claims 1-11 and 14-28 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.